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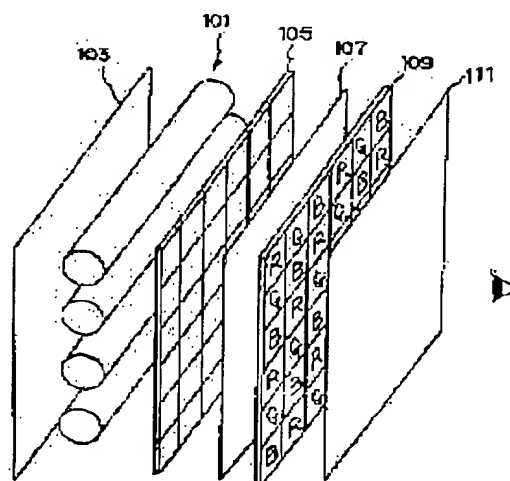
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(54) TRANSMITTED LIGHT CONTROL TYPE DISPLAY DEVICE

(57)Abstract:

PURPOSE: To provide the transmitted light control type display device which has lower dependency on visual field angles and has a high utilization rate of light by providing the display device with an optical shutter of an interference type which allows the transmission of light of light sources by controlling plural windows to selectively open and close these windows and a fluorescent surface having plural phosphors which are arranged in correspondence to the respective windows of this optical shutter and emit light by irradiation with the light transmitted through the optical shutter.

CONSTITUTION: The light of the light sources 101 is made incident together with the light reflected by a reflection plate 103 on the optical shutter 105. The windows of the optical shutter 105 are driven to open and close in pixel units by electrodes arranged in a matrix, by which the light of the required windows is emitted. The dots of the fluorescent surface 109 arranged with phosphor dots of R, G, B colors in, for example, a mosaic form are irradiated with the exit light of the optical shutter 105 via a filter 107. The optical shutter 105 is composed of optical elements of an interference type. Electric fields are impressed to optical path length varying layers by the ITO transparent electrodes arranged in the matrix form on a pair of glass substrates, by which the windows corresponding to the pixels are driven to switch.



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